



BEA WebLogic Adapter for CORBA™

Installation and Configuration Guide for WebLogic Integration 7.0

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BEA WebLogic Adapter for CORBA Installation and Configuration Guide for WebLogic Integration 7.0

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About This Document

This document explains how to install the BEA WebLogic Adapter for CORBA, which is used to develop client-server interfaces between CORBA and other applications. It describes how to install the BEA WebLogic Adapter for CORBA with WebLogic Integration 7.0 and use adapter tools to develop online connections to CORBA applications.

This document contains one chapter, [“Installing the Adapter for WebLogic Integration 7.0,”](#) which describes how to install the BEA WebLogic Adapter for CORBA.

Audience

This document is written for system integrators who develop client interfaces between CORBA and other applications. It describes how to install and deploy the BEA WebLogic Adapter for CORBA and how to use it with WebLogic Integration 7.0 and adapter tools to develop online connections to CORBA applications. It is assumed that readers know Web technologies and have a general understanding of Microsoft Windows and UNIX systems as well as the following:

- General knowledge of CORBA concepts
- Knowledge of CORBA processes and data model for the required application area
- Knowledge of WebLogic Integration architecture
- General knowledge of client-server concepts

Related Information

The following documents provide additional information for the associated software components:

- BEA WebLogic Adapter for CORBA User Guide
- *BEA WebLogic Adapter for CORBA Release Notes*
- *BEA Application Explorer Installation and Configuration Guide*
- BEA WebLogic Server installation and user documentation, which is available at the following URL:

http://edocs.bea.com/more_wls.html

- BEA WebLogic Integration installation and user documentation, which is available at the following URL:

http://edocs.bea.com/more_wli.html

Contact Us!

Your feedback on the BEA WebLogic Adapter for CORBA documentation is important to us. Send us e-mail at docsupport@bea.com if you have questions or comments. Your comments will be reviewed directly by the BEA professionals who create and update the BEA WebLogic Adapter for CORBA documentation.

In your e-mail message, please indicate which version of the BEA WebLogic Adapter for CORBA documentation you are using.

If you have any questions about this version of the BEA WebLogic Adapter for CORBA, or if you have problems installing and running the BEA WebLogic Adapter for CORBA, contact BEA Customer Support through BEA WebSupport at www.bea.com. You can also contact Customer Support by using the contact information provided on the Customer Support Card, which is included in the product package. When contacting Customer Support, be prepared to provide the following information:

- Your name, e-mail address, phone number, and fax number
- Your company name and company address
- Your machine type and authorization codes
- The name and version of the product you are using
- A description of the problem and the content of pertinent error messages

Documentation Conventions

The following documentation conventions are used throughout this document.

Convention	Item
boldface text	Indicates terms defined in the glossary.
Ctrl+Tab	Indicates that you must press two or more keys simultaneously.
<i>italics</i>	Indicates emphasis or book titles.
monospace text	Indicates code samples, commands and their options, data structures and their members, data types, directories, and file names and their extensions. Monospace text also indicates text that you must enter from the keyboard. <i>Examples:</i> <pre>#include <iostream.h> void main () the pointer psz chmod u+w * \tux\data\ap .doc tux.doc BITMAP float</pre>
monospace boldface text	Identifies significant words in code. <i>Example:</i> <pre>void commit ()</pre>

Convention	Item
<i>monospace</i> <i>italic</i> <i>text</i>	Identifies variables in code. <i>Example:</i> String <i>expr</i>
UPPERCASE TEXT	Indicates device names, environment variables, and logical operators. <i>Examples:</i> LPT1 SIGNON OR
{ }	Indicates a set of choices in a syntax line. The braces themselves should never be typed.
[]	Indicates optional items in a syntax line. The brackets themselves should never be typed. <i>Example:</i> buildobjclient [-v] [-o name] [-f <i>file-list</i>]... [-l <i>file-list</i>]...
	Separates mutually exclusive choices in a syntax line. The symbol itself should never be typed.
...	Indicates one of the following in a command line: <ul style="list-style-type: none">■ That an argument can be repeated several times in a command line■ That the statement omits additional optional arguments■ That you can enter additional parameters, values, or other information The ellipsis itself should never be typed. <i>Example:</i> buildobjclient [-v] [-o name] [-f <i>file-list</i>]... [-l <i>file-list</i>]...
. . . .	Indicates the omission of items from a code example or from a syntax line. The vertical ellipsis itself should never be typed.

1 Installing the Adapter for WebLogic Integration 7.0

This section provides instructions for installing the BEA WebLogic Adapter for CORBA. It includes the following topics:

- [Introducing Path Representation](#)
- [Step 1. Obtaining the Adapter](#)
- [Step 2. Setting Up Your ORB Environment](#)
- [Step 3. Configuring the Domain](#)
- [Step 4. Modifying Domain Start Options](#)
- [Step 5. Updating the BEA License](#)
- [Step 6. Deploying the Adapter Using the WebLogic Server Console](#)
- [Step 7. Creating or Updating the Adapter Group](#)
- [Step 8. Initializing BEA Application Explorer for JacORB](#)
- [Step 9. Install Application Explorer](#)

Before you install the BEA WebLogic Adapter for CORBA, you must review the *BEA WebLogic Adapter for CORBA Release Notes* to ensure that you have the required prerequisite software installed. The *BEA WebLogic Adapter for CORBA Release Notes* is available at the following URL:

<http://edocs.bea.com/wlapters/doc703/index.html>

Introducing Path Representation

Because the location of files in the WebLogic Integration environment depends on options selected during installation and configuration, the conventions that follow are used throughout to represent paths:

- The variable *BEA_HOME* represents the BEA Home directory specified for your WebLogic installation.

For example, if you install the product in the default location on a Windows system, *BEA_HOME* represents `c:\bea`.

- The variable *WLI_HOME* represents the root of your WebLogic Integration installation.

For example, if you install WebLogic Integration 7.0 in the default location on a Windows system, *WLI_HOME* represents `c:\bea\weblogic700\integration`.

- The variable *domain* is used to indicate the name of a domain.

In WebLogic Integration 7.0, a new tool, the Configuration Wizard, is used to create custom user domains. When you use the Configuration Wizard to set up the domain configuration stored on the administration server, you are prompted to assign a domain name, *domain*, and to specify the location to which the *domain* directory will be installed. The files required by the administration server are installed in the *domain* directory under the specified location.

For additional information, see *Using the Configuration Wizard* which is available at the following URL:

<http://edocs.bea.com/platform/docs70/configwiz/index.html>

For example, if you accept the Configuration Wizard default location, *BEA_HOME\user_projects*, the files required by the administration server are installed in the following directory:

`BEA_HOME\user_projects\domain`

- The variable *DOMAIN_HOME* represents the complete path to the root of a domain.

For example, if you use the WebLogic Integration 7.0 Configuration Wizard to create a domain in the default location on a Windows system, *DOMAIN_HOME* represents `c:\bea\weblogic700\user_projects\domain`.

Note: *WLI_HOME* and *BEA_HOME* (italicized) also represent the corresponding Windows and UNIX environment variables. For example, the literal interpretation of *WLI_HOME* is `%WLI_HOME%` for Windows and `$WLI_HOME` for UNIX.

Unlike *WLI_HOME* and *BEA_HOME*, *DOMAIN_HOME* is not an environment variable that is set by default in the WebLogic Integration environment.

Step 1. Obtaining the Adapter

Obtain the following BEA WebLogic Adapter for CORBA software components on CD or download them from www.bea.com:

- The BEA WebLogic Adapter for CORBA, which is packaged as an EAR file (`BEA_CORBA_1_0_70.ear`).
- The `BEA_CORBA_SAMPLES.zip` file, which includes JacORB components and sample service schemas.

Step 2. Setting Up Your ORB Environment

Before installing and configuring the BEA WebLogic Adapter for CORBA, you should set up your ORB environment and configure it to work with the adapter, as described in Appendix A, “Using CORBA Implementations with the Adapter” in the *BEA WebLogic Adapter for CORBA User Guide*. Verify that the following conditions are satisfied:

- Your ORB infrastructure is properly configured
- Your server is registered in the Naming Service (NS), or you have an Interoperable Object Reference (IOR) file for your server

- Your interface repository (IFR) is running and populated

Step 3. Configuring the Domain

The adapter can only be deployed in a domain that includes support for application integration functionality. If you have not already done so, use the Configuration Wizard to create the domain and select one of the following domain templates:

- Enterprise application integration (EAI) domain template
- WebLogic Integration (WLI) domain template
- Platform domain template

For the information you need to configure a fully functional domain based on the template, see the appropriate section of the *Configuration Wizard Template Reference*:

- For the EAI domain template, see the following URL:

<http://edocs.bea.com/platform/docs70/template/eaidomain.html>

- For the WLI domain template, see the following URL:

<http://edocs.bea.com/platform/docs70/template/wlidomain.html>

- For the platform domain template, see the following URL:

<http://edocs.bea.com/platform/docs70/template/platjar.html>

For general information about using the Configuration Wizard, see *Using the Configuration Wizard* at the following URL:

<http://edocs.bea.com/platform/docs70/configwiz/index.html>

When you use the Configuration Wizard to create a domain based on the WLI or EAI domain template, a domain-specific version of the Database Wizard is installed in the *DOMAIN_HOME* directory. You must run the Database Wizard for the domain to initialize the database repository with the required tables and system data. For additional information, see “Configuring the Database for a Domain” in *Starting, Stopping and Customizing BEA WebLogic Integration*, which is available at the following URL:

<http://edocs.bea.com/wli/docs70/config/index.htm>

Step 4. Modifying Domain Start Options

Modify the start options for the domain using the procedure appropriate for your system:

- [Modifying Start Options on Windows](#)
- [Modifying the Start Options on UNIX](#)

Modifying Start Options on Windows

To modify the start options on Windows, complete the following steps:

1. Go to the root directory for your domain:

```
cd DOMAIN_HOME
```

Note: You must choose a domain that supports application integration functionality.

2. Find the `StartWeblogic.cmd` file, which is in your `DOMAIN_HOME` directory, and locate the following Java command:

```
%JAVA_HOME%\bin\java %JAVA_VM%
```

3. Add the following option to the command:

```
-Xbootclasspath/p:x:\JacORB1_4_1\lib\jacobrb.jar
```

The command should resemble the following:

```
%JAVA_HOME%\bin\java %JAVA_VM%  
-Xbootclasspath/p:x:\JacORB1_4_1\lib\jacobrb.jar %JAVA_OPTIONS%  
-Xmx256m -classpath %SVRCP% -Dbea.home=%BEA_HOME%  
-Dweblogic.home=%WL_HOME%  
-Dweblogic.system.home=D:\bea\user_projects\eaidomain  
-Dwli.bpm.server.evaluator.supportsNull=false  
-Dweblogic.management.username=  
-Dweblogic.management.password= -Dweblogic.Name=myserver  
-Dweblogic.RootDirectory=D:\bea\user_projects\eaidomain  
-Djava.security.policy=%WL_HOME%\lib\weblogic.policy  
-Dweblogic.management.discover=true
```

1 *Installing the Adapter for WebLogic Integration 7.0*

```
-Dweblogic.servlet.ClasspathServlet.disableStrictCheck=true  
weblogic.Server
```

Note: The instructions above are for access to JacORB services. For details for other ORBs, see your ORB documentation.

4. To use the Visibroker environment, you must add the following settings to the `StartWeblogic.cmd` file:

```
set VBORB_HOME=visibroker_home  
set SVRCP=patch_directory\patch_jar;%VBORB_HOME%\bea\club;  
%VBORB_HOME%;%VBORB_HOME%\lib\vbjorb.jar;%SVRCP%  
set PATH=%VBORB_HOME%\bea\club;%PATH%
```

Replace the following variables in these settings with appropriate values for your configuration:

- The term *visibroker_home* refers to your Visibroker home directory, for example, `C:\Inprise\vbroker`.
- The term *patch_directory* refers to a location where you may have adapter patches from BEA.
- The term *patch_jar* refers to the unique filename of any adapter patch JAR files from BEA you may require, for example, `CR095687.jar`.

Modifying the Start Options on UNIX

To modify the start options on UNIX, complete the following steps:

1. Go to the root directory for your domain:

```
cd DOMAIN_HOME
```

Note: You must choose a domain that supports application integration functionality.

2. Find the `StartWeblogic.cmd` file, which is in your *DOMAIN_HOME* directory, and locate the following Java command:

```
JAVA_HOME/bin/java $JAVA_VM
```

3. Add the following option to the command:

```
-Xbootclasspath/p:$AE_HOME/lib/jacorb.jar
```

The command should resemble the following:

```
JAVA_HOME/bin/java $JAVA_VM
-Xbootclasspath/p:$AE_HOME/lib/jacorb.jar $JAVA_OPTIONS
-classpath $SVRCP -Dbea.home=$BEA_HOME -Dweblogic.home=$WL_HOME
-Dweblogic.system.home=/qa/edantk/bea/user/abc
-Dwli.bpm.server.evaluator.supportsNull=false
-Dweblogic.management.username=
-Dweblogic.management.password= -Dweblogic.Name=myserver
-Dweblogic.RootDirectory=/qa/edantk/bea/user/abc
-Djava.security.policy=$WL_HOME/lib/weblogic.policy
-Dweblogic.management.discover=true
-Dweblogic.servlet.ClasspathServlet.disableStrictCheck=true
weblogic.Server
```

Note: The instructions above are for access to JacORB services. For details for other ORBs, see your ORB documentation.

4. To use the Visibroker environment, you must add the following settings to the StartWeblogic.cmd file:

```
VBORB_HOME=/visibroker_home

SVRCP=Patch_directory/patch_jar;$VBORB_HOME$/bea/club;$VBORB_HO
ME$

;$VBORB_HOME_HOME$/lib/vbjorb.jar;$SVRCP$

PATH=$VBORB_HOME_HOME$/bea/club;$PATH$
```

Replace the following variables in these settings with appropriate values for your configuration:

- The `visibroker_home` variable refers to your Visibroker home directory, for example, `/opt/inprise/vbroker`.
- The `patch_directory` variable refers to a location where you may have adapter patches from BEA.
- The `patch_jar` variable refers to the unique filename of any adapter patch JAR files from BEA you may require, for example, `CR095687.jar`.

Step 5. Updating the BEA License

The BEA WebLogic Adapter for CORBA cannot be used without a valid software license. If you have downloaded the adapter for evaluation, you must obtain an evaluation license as described on the adapter download page. If you have purchased a license for the adapter, the license file is typically sent to you as an e-mail attachment.

When you have obtained a valid license for the adapter, update your `license.bea` file by completing the following steps:

1. Save the license file that you obtained with a name other than `license.bea`, in the `BEA_HOME` directory. For example, save the file as `corba_adapter_license.bea`. Use this file as the *license_update_file* in step 4 of this procedure.

Warning: Do not overwrite or change the name of the existing `license.bea` file.

2. Perform the step appropriate for your platform:
 - On a Windows system, open an MS-DOS session and go to the `BEA_HOME` directory.
 - On a UNIX system, go to the `BEA_HOME` directory.
3. If it is not already included, add the JDK to your `PATH` variable by executing the command appropriate to your system:

- On a Windows system:

```
set PATH=BEA_HOME\jdk131_03\bin;%PATH%
```

- On a UNIX system:

```
PATH=BEA_HOME/jdk131_03/bin:$PATH
export PATH
```

4. Merge the license update file into your existing license by executing the command appropriate to your system:

- On a Windows system:

```
UpdateLicense license_update_file
```

- On a UNIX system:

```
sh UpdateLicense.sh license_update_file
```


Here, *license_update_file* is the name to which you saved the license update file in step 1.

5. Save a copy of your updated `license.bea` file in a safe place outside the WebLogic Integration and application installation directories.

Step 6. Deploying the Adapter Using the WebLogic Server Console

After the BEA WebLogic Adapter for CORBA is installed, it must be deployed to your domain. To configure and deploy an adapter using the WebLogic Server Administration Console, complete the following steps:

1. Start WebLogic Server.
2. Start the WebLogic Server Administration Console in a browser using the following URL:

`http://host:port/console/`

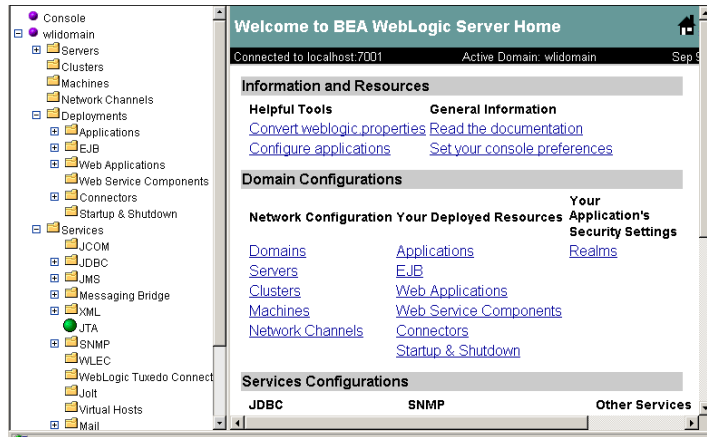
Here, *host* represents the machine on which WebLogic Server is running and *port* represents the listening port.

For example, `http://localhost:7001/console/`

3. When prompted, enter the user name and password for the server.

The WebLogic Server Administration Console opens.

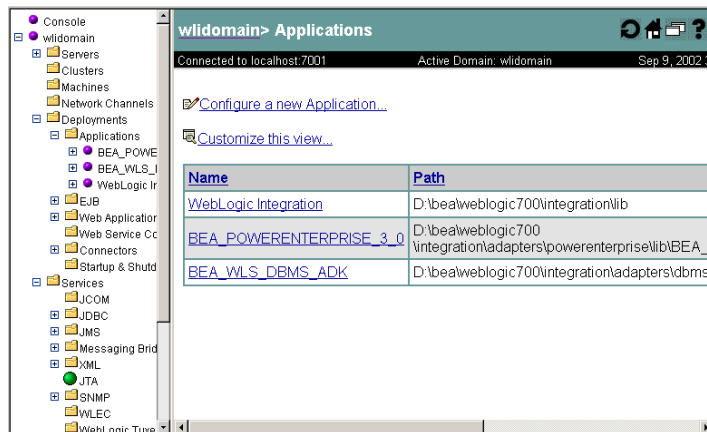
Figure 1-1 WebLogic Server Console



4. In the left pane, choose Deployments and then Applications from the navigation tree.

The console displays the Applications window.

Figure 1-2 Applications Window

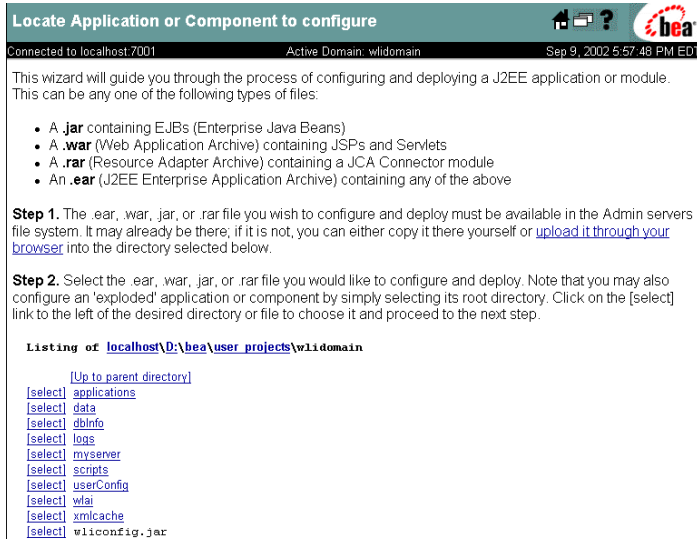


5. Click the Configure a new Application link.

The console displays the Locate Application or Component to configure window.

Step 6. Deploying the Adapter Using the WebLogic Server Console

Figure 1-3 Locate Application or Component to Configure Window



6. If you copied the `BEA_CORBA_1_0_70.ear` file to a directory on the administrative server, navigate to that directory, and skip ahead to [Step 13](#).

For example, if you copied the file to the `D:\bea\AdapterEars` directory, select the directory as shown in the following figure.

Figure 1-4 Locating the Adapter EAR File

Listing of **localhost\D:\bea\AdapterEars**

[\[Up to parent directory\]](#)

[\[select\]](#) BEA_CORBA_1_0_70.ear

7. If you have not copied the `BEA_CORBA_1_0_70.ear` file to a directory on the administrative server, do the following:
8. Navigate to the directory to which the file will be uploaded.

For example, to upload the adapter from your local machine to the `D:\bea\AdapterEars` directory on the administrative server, select the directory as shown in the following figure.

Figure 1-5 Selecting the Target Directory

Listing of **localhost\D:\bea\AdapterEars**

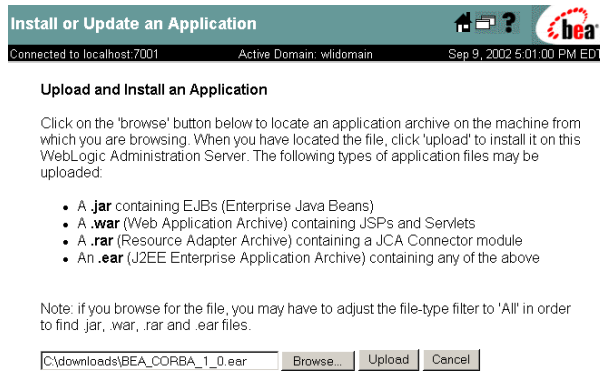
[\[Up to parent directory\]](#)

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9. Click the upload it through your browser link to display the Install or Update an Application window.
10. Click Browse to display the Choose File dialog box.
11. In the Choose File dialog box, locate the file, and then click Open.

The console displays the selected location.

Figure 1-6 Install or Update an Application Window



12. Click Upload.

The browser status bar indicates upload progress. When the upload is complete, you are returned to the Locate Application or Component to configure window. The uploaded file now resides in the directory selected in step a.

Figure 1-7 Adapter EAR File Uploaded to Administrative Server

Listing of [localhost\0:\bea\AdapterEars](#)

[\[Up to parent directory\]](#)

[\[select\]](#) BEA_CORBA_1_0_70.ear

13. Click the [select] link to the left of the adapter EAR file.

The console displays the Configure Application or Component window.

Figure 1-8 Configure Application or Component Window

Configure Application or Component

Connected to localhost:7001 Active Domain: wldomain Sep 9, 2002 5:33:42 PM EDT

Step 3. You have chosen to configure
D:\bea\AdapterEars\BEA_CORBA_1_0_70.ear
Select the Servers and/or Clusters on which you would like to deploy this application initially.
(You can reconfigure deployment targets later if you wish).

Available Servers		Target Servers
myserver	→	
	←	

Step 4. Enter a name for this application.
BEA_CORBA_1_0_70

Step 5. Press 'Configure and Deploy' to configure and deploy the application, or 'Cancel' to leave the Domain unchanged.

Configure and Deploy Cancel

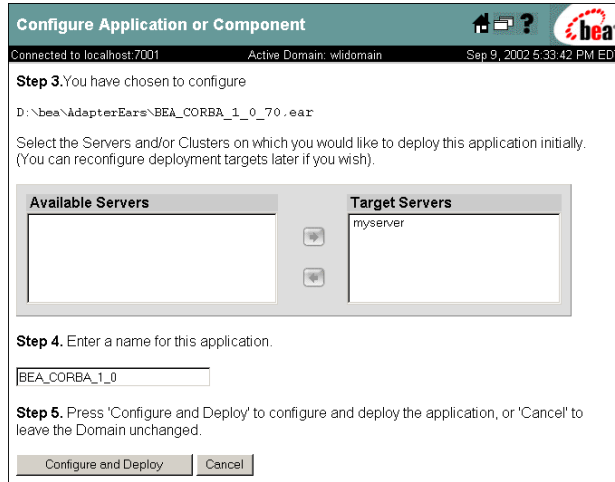
14. Select the servers or clusters on which to deploy the adapter by using the arrow buttons to move entries from the available list to the target list.

15. You must change the application name from BEA_CORBA_1_0_70 to BEA_CORBA_1_0.

Note: If you do not change the application name, the adapter will not be available to application views.

The following figure shows a configured application:

Figure 1-9 Configured Application



16. Click **Configure and Deploy**.

The console displays the deployment status, which includes a description, status, begin time, and end time for the deployed adapter.

Step 7. Creating or Updating the Adapter Group

Before you create an application view that uses the events or services supported by an adapter, the following requirements must be met:

- The user group, `adapter`, must be defined.
- The administrative server user name must be a member of the `adapter` group.

The action required to complete the configuration depends on which domain template you selected when you created the domain. See the following table for guidelines.

Table 1-1 Configuration Requirements

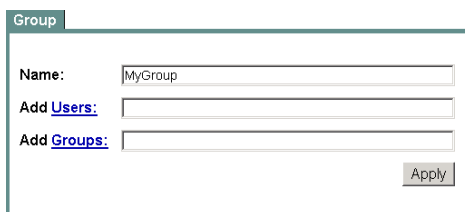
If you created a domain based on the . . .	And the administrative server user name is . . .	Then . . .
Platform domain template	Any value	Create the adapter group and add the administrative user name to it as described in “Creating the Adapter Group” on page 1-15 .
WLI or EAI domain template	system	The adapter group is already defined. This group includes the system user name by default. No further configuration is required.
WLI or EAI domain template	A value other than system	The adapter group is already defined. Add the user name to the group as described in “Adding the User Name to the Adapter Group” on page 1-16 .

Creating the Adapter Group

To create the adapter group and add the administrative server user name to it, complete the following steps:

1. In the left pane of the WebLogic Server Administration Console, choose Compatibility Security and then Groups from the navigation tree.
2. Click the Create a New Group link to display the Group window.

Figure 1-10 Group Window



Group

Name:

Add [Users](#):

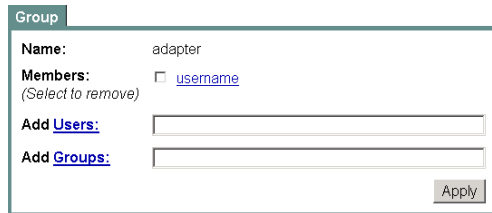
Add [Groups](#):

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3. Enter `adapter` in the Name field.
4. Enter the administrative server user name in the Add Users field.
5. Click Apply.

The Group window is updated as shown in the following figure.

Figure 1-11 Group Window



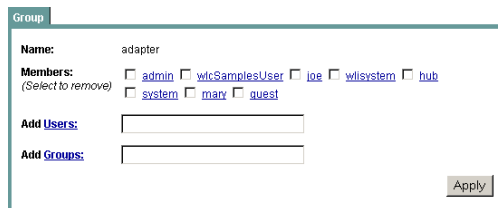
The screenshot shows a window titled "Group" with a tab labeled "Group". Inside the window, the "Name:" field contains the text "adapter". Below it, the "Members:" section is labeled "(Select to remove)" and contains a single checkbox next to the text "username". Further down, there are two empty text input fields: one labeled "Add Users:" and another labeled "Add Groups:". At the bottom right of the window is an "Apply" button.

Adding the User Name to the Adapter Group

To add the administrative server user name to the `adapter` group, complete the following steps:

1. In the left pane of the WebLogic Server Administration Console, choose Compatibility Security and then Groups from the navigation tree.
The console displays the groups currently defined for the domain.
2. Locate and click the link for the `adapter` group to display the group definition.

Figure 1-12 Group Definition



The screenshot shows a window titled "Group" with a tab labeled "Group". Inside the window, the "Name:" field contains the text "adapter". Below it, the "Members:" section is labeled "(Select to remove)" and contains a list of checkboxes next to the following text: "admin", "wlcSamplesUser", "joe", "wlssystem", "hub", "system", "mary", and "quest". Further down, there are two empty text input fields: one labeled "Add Users:" and another labeled "Add Groups:". At the bottom right of the window is an "Apply" button.

3. If the administrative server user name is not included in the Members list, enter the user name in the Add Users field.
4. Click Apply to add the user name to the group.

The name is added to the Members list.

Step 8. Initializing BEA Application Explorer for JacORB

To use the BEA Application Explorer to generate schemas for JacORB:

1. Open the BEA Application Explorer command file:

- On a Windows system, the default location of this .bat file is:

```
C:\Program Files\BEA Systems\BEA Application Explorer\bin\ae.bat
```

- On a UNIX system, the location of this shell script is

```
/installation_directory/bin/ae
```

For example: /home/apps/bea/bae/bin/ae

2. Uncomment the following statement:

- On a Windows system:

```
REM "%JAVACMD%" -Xbootclasspath/p:"%AE_HOME%\lib\jacorb.jar"
-classpath "%LOCALCLASSPATH%" com.ibi.bse.gui.BseFlashScreen
```

- On a UNIX system:

```
#$JAVACMD -Xbootclasspath/p:$AE_HOME/lib/jacorb.jar
-classpath $LOCALCLASSPATH com.ibi.bse.gui.BseFlashScreen $@
```

3. Comment the following statement:

- On a Windows system:

```
"%JAVACMD%" -classpath "%LOCALCLASSPATH%"
com.ibi.bse.gui.BseFlashScreen
```

- On a UNIX system:

```
$JAVACMD -classpath $LOCALCLASSPATH
com.ibi.bse.guil.BseFlashScreen $@
```

You can now generate schemas for JacORB using the BEA Application Explorer.

Step 9. Install Application Explorer

If you have not already installed the BEA Application Explorer, install it now. See the *BEA Application Explorer Installation and Configuration Guide*.

When you have successfully deployed the adapter and installed the BEA Application Explorer, you can log on to the WebLogic Integration Application View Console to create application views that employ events and services supported by the BEA WebLogic Adapter for CORBA. For more information, see the *BEA WebLogic Adapter for CORBA User Guide*.